Curriculum Development
Centers Program

Awardee of The Office of the National Coordinator for
Health Information Technology

Component 3-Terminology in Healthcare and Public Health Settings

Unit 15-Overview/ Introduction to the EHR

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Past and Future

- Improved Technology
- Government Support
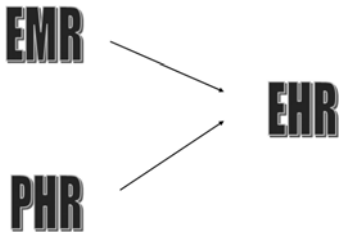- Receptivity of Healthcare Professionals
- Receptivity of Patients

= ⬆ Use of Electronic Records

= ⬆ Amount of Data

EMR → EHR
PHR → EHR

The Electronic Health Record

- Common acronyms for electronic records for patient data
  - EHR   electronic health record (across the lifespan)
  - CBMR   computer-based medical record
  - CPR   computerized patient record
  - EMR   electronic medical record
  - EPR   electronic patient record
  - PHR   personal health record

Functions of the Health Record

- Document patient care
- Provide communication among healthcare team members
- Establish financial and legal record
- Support research and continuous quality improvement
- Create repository of the clinical thought processes recording ideas and impressions over the period of care
- Archive (at a single point) all clinical data for long-term use

Attributes of the EHR

- Data Storage
  - Enormous capabilities
  - Small space
- Accessibility
  - From remote sites
  - Multiple users at the same time
- Information retrieval
  - Almost instantaneous
- Includes
  - Clinical alerts
  - Expert systems
  - Reminders

Attributes of the EHR

- Links the clinician to protocols
- Offers customized views
- Improves risk management
- Provides outcomes assessment
- Results in more accurate capture of financial charges and billing efficiency
- Increases patient satisfaction

Data rich and information poor?

Rights of Information

- **Right information**: accurate, free from error, and meaningful
- **Right person:** communicated to the person who should respond
- **Right time:** given to the decision-maker within a few minutes or hours
- **Right place:** accessible at the point of care
- **Right amount:** decisions can be made faster when appropriately-selective information is available

American Recovery and Reinvestment Act (ARRA)

- $19B for Health Information Technology for Economic and Clinical Health (HITECH)
- Center for Medicaid and Medicare Services (CMS)
  - Incentive Payment, Meaningful Use
- Office of the National Coordinator for Health Information Technology (ONC)
  - Certification Standards

Meaningful Use

"The effective use of information to support better decision-making and more effective care processes that improve health outcomes and reduce cost growth"

1. Enhance Data Capture and Sharing
2. Advance Clinical Processes
3. Improve Outcomes

Achieving the Health IT Objectives of the American Recovery and Reinvestment Act. The Markel Foundation: Connecting for Health, [Internet] 2009 April .Available from: http://www.markle.org/publications/403-achieving-health-it-objectives-american-recovery-and-reinvestment-act

Data Capture and Sharing

- Improve Quality, Safety and Efficiency
- Engage Patients and Families
- Improve Care Coordination
- Improve Population and Public Health
- Ensure Privacy and Security Protections

Improve Quality

- Use CPOE
- Formulary Checks
- Problem List
- ePrescribe
- Rx List
- Rx Allergy List
- Record Demographics
- Record Physiological Data
- Growth charts for children between 2 and 20

- Record Smoking (> 13 yrs)
- Structured Lab Results
- List Patient by Condition
- Report Quality Measures
- Patient Reminders (50 yrs or older)
- Clinical Decision Support ("Relevant to Clinical Quality Measures")
- Check Eligibility
- Submit Electronic Claims

Engage Patients and Families

- Patient eAccess on Request (Including Discharge Summary/ Instructions from hospital)
- Patient eAccess to Record (Patient Portal)
- Clinical Summaries each Visit (Portal, email, CD, USB, paper)

Improve Care Coordination

- Exchange Health Information with other Providers
- Medication Reconciliation
- Summary Care Record for each Transition/Referral: Transfers with summary

Improve Population and Public Health

- eSubmit to Immunization Registries (hospitals also submit to Department of Public Health)
- eSubmit Syndromic Surveillance to Department of Public Health

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Final Revisions to the ARRA Meaningful Use Rule

- Final revisions to the rule July 13, 2010. http://healthit.hhs.gov/portal/server.pt?open=512&objID=2996&mode=2

Summary of Objectives

The "Meaningful Use" Regulation for Electronic Health Records. *NEJM*, July 13th, 2010.

Blumenthal D and Tavenner R. The "meaningful use" regulation for electronic health records. N Engl J Med. July 13, 2010. Available from: http://healthcarereform.nejm.org/?p=3732&query=home